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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO
10/630,806	07/31/2003	James F. Stewart	PAT 537AW-2 US	9776
26123 7	7590 09/18/2006		EXAMINER	
BORDEN LADNER GERVAIS LLP			CLARDY, S	
	WORLD EXCHANGE PLAZA 100 QUEEN STREET SUITE 1100			PAPER NUMBER
OTTAWA, ON KIP 1J9			1617	
CANADA			DATE MAILED: 09/18/2006	5

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application No.	Applicant(s)			
Office Action Summary		10/630,806	STEWART ET AL.			
		Examiner	Art Unit			
		S. Mark Clardy	1617			
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply						
WHICHEVER - Extensions of tin after SIX (6) MO - If NO period for - Failure to reply v Any reply receive	ED STATUTORY PERIOD FOR REPLY IS LONGER, FROM THE MAILING DATE of the any be available under the provisions of 37 CFR 1.13 NTHS from the mailing date of this communication. The reply is specified above, the maximum statutory period we within the set or extended period for reply will, by statute, and by the Office later than three months after the mailing rm adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 16(a). In no event, however, may a reply be tim rill apply and will expire SIX (6) MONTHS from to cause the application to become ABANDONEL	l. ely filed he mailing date of this communication. D (35 U.S.C. § 133).			
Status						
1)⊠ Respon	Responsive to communication(s) filed on <u>07 February 2005</u> .					
· <u> </u>	This action is FINAL . 2b)⊠ This action is non-final.					
	nis application is in condition for allowan					
ciosea	in accordance with the practice under E.	х рапе Quayle, 1935 С.D. 11, 45	3 O.G. 213.			
Disposition of C	laims					
4a) Of th 5) ☐ Claim(s 6) ☑ Claim(s 7) ☐ Claim(s	i) 1-6 is/are pending in the application. ne above claim(s) is/are withdraw i) is/are allowed. i) 1-6 is/are rejected. i) is/are objected to. i) are subject to restriction and/or					
Application Pape	ers					
10)∭ The draw Applican Replace	cification is objected to by the Examiner wing(s) filed on is/are: a) accept may not request that any objection to the diment drawing sheet(s) including the correction or declaration is objected to by the Examiner.	epted or b) objected to by the E drawing(s) be held in abeyance. See on is required if the drawing(s) is obje	37 CFR 1.85(a). ected to. See 37 CFR 1.121(d).			
Priority under 35	i U.S.C. § 119					
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. 10/415,294. 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received.						
Attachment(s)	pages Cited (DTO 200)	о П	DTO 442)			
Notice of References Cited (PTO-892) Interview Summary (PTO-413)						

Application/Control Number: 10/630,806

Art Unit: 1617

Claims 1-6 are pending in this application.

Applicants' claims are drawn to agrochemical formulation aid compositions comprising:

1.	Mon	ocarbamide dihydrogen sulfate ¹	1 – 99 parts
2.	A bl	end comprising:	50 – 1 parts:
	a.	phosphate ester blend ²	1 – 99 %
	b.	tallow amine ethoxylate	99 - 1 %
	c.	optionally:	
		fatty acid methyl ester free fatty acid blend linear alcohol blend ³ oleyl cetyl alcohol ⁴ polyethylene glycol (PEG) water	0-25 % 0-5 % 0-10 % 0-10 % 0-10 % (balance)

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 1-6 are rejected under 35 U.S.C. 103(a) as being unpatentable over the combined teachings of Agbaje et al (US 6,165,939), Atwater PCT WO 93/14637), and Roberts et al (US5,877,112).

Agbaje et al teach herbicidal concentrates comprising various herbicides (columns 9-10) in combination with both phosphate ester and tallowamine surfactants (col 14, lines 33-41) such

¹ Urea sulfate, H₂N-CO-NH₂ · H₂SO₄

² Claim 3: alkyl(aryl) ethoxylate phosphate esters

³ Claim 2: 2N-octanol (0 - 0.5%) and N-butanol (0 - 1%)

⁴ Taken to be a mixture of oleyl alcohol (octadecen-1-ol) and cetyl alcohol (hexadecanol)

45 50 4

as a blend of nonylphenol polyoxyethylene (3-9) phosphate and polyoxyethylene (5) tallowamine. Diquat is among the disclosed water soluble herbicides.

Atwater teaches herbicidal compositions comprising diquat and monocarbamide dihydrogen sulfate (abstract).

Roberts et al teach the utility of combining tallowamine ethoxylates and phosphate esters to enhance solubility in herbicidal compositions (abstract).

One of ordinary skill in the art would be motivated to combine these references in order to enhance the solubility and concentration of herbicidal compositions comprising herbicides such as diquat.

Thus it would have been *prima facie* obvious to the ordinary artisan at the time the invention was made to have combined applicants components in a single composition because the prior art teaches the combination of phosphate esters and tallowamine ethoxylates in concentrated (Agbaje et al) and enhanced solubility (Roberts et al) herbicidal compositions, and because applicants' urea sulfate was also known in the art to improve the effect of herbicides such as diquat which were known to be formulated with the tallowamine and phosphate components. It is prima facie obvious to formulate such herbicidal compositions with additional optional surface active materials.

No unobvious or unexpected results are noted; no claim is allowed.

This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).

Art Unit: 1617

Any inquiry concerning this communication or earlier communications from the examiner should be directed to S. Mark Clardy whose telephone number is 571-272-0611. The examiner can normally be reached on 7:30-5:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Sreenivasan Padmanabhan can be reached on 571-272-0629. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

S. Mark Clardy

Page 4

Primary Examiner
Art Unit 1617

September 14, 2005